

## Tools selection

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## What we think you want to know (but may not tell you)

- What tools, processes, or approaches are best for helping me move forward?
  - Who to engage
  - How to engage them
  - What information/data I need and where to get it
- What are the best practices?
- What are the pitfalls to avoid?

# Two key principles for choosing data and tools

- Your goals and objectives should drive the selection of tools and data, not vice versa
- The sophistication of the VA should not exceed the sophistication of possible uses of VA results.

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Choosing tools and data comes back to the basic questions:	
What is the goal of your VA?	
"Assessment questions": what do you need to know to answer them?	
<ul><li>Who will use the output and how?</li><li>What resources do you have?</li></ul>	
If you don't ask the right question, every answer feels wrong  Ani DiFranco	
Goal/question?	
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· Educate/engage	
<ul> <li>Rethink conservation management goals/objectives</li> </ul>	
Initiate/develop adaptation plans	
<ul> <li>Integrate climate change into existing guidelines, processes, etc.</li> </ul>	
Who and how?	
· What do they do?	
• What are their existing decision- making processes?	
<ul><li>How do they take in information?</li></ul>	
• What's the level of scientific/technical comfort?	

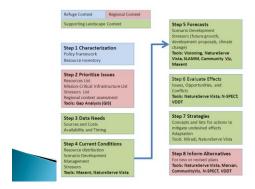
• Where are they relative to climate change?

Resources?	
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Answering these questions	
helps you determine	
appropriate tool types	
· Quantitative to qualitative	
· Visual or not	
Complex models to transparent processes	
Descriptive or prescriptive	
and data sets	
<ul> <li>Key drivers of vulnerability for your target</li> <li>Specific climate variables</li> </ul>	
- Specific chimates  - Critical species, community, and ecosystem  characteristics	
- Important interacting stressors	
· Necessary spatial and temporal resolution	
· Necessary level of precision	

## You don't have to pick just one!

Can use different tools and data at different points in the engagement or adaptation planning process

#### NatureServe Refuge VA Framework



### A brief aside: The adaptation planning process working group

- · Several formal/semi-formal process
  - Adapting Conservation Targets
  - -TNC Climate Clinics
  - Geos ClimateWise
  - EcoAdapt Awareness to Action
  - EPA Expert Elicitation
  - NEAFWA Expert Elicitation
  - GBN Scenario Planning

A quick overview of tools and portals	
▶ Portals	
<ul> <li>Tools portals, e.g. Digital Coast, EBM Tools, CAKE, WeAdapt</li> </ul>	
<ul> <li><u>Data portals</u>, e.g. PNW Climate Sensitivity Database, NE Climate Data, DataBasin, Climate Wizard</li> </ul>	
Tool types	
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· Data access	
<ul> <li>Visualization</li> <li>Complex (e.g. Climate Wizard)</li> </ul>	
- Simple (e.g. CanViz)	
Tool types	
· Data access	
· Visualization	
· Analytical	
<ul><li>NatureServe Vista, CC Vulnerability Index</li><li>SLAMM</li></ul>	

Tool types	
· Data access	
<ul><li>Visualization</li><li>Analytical</li></ul>	
· Socioeconomic	
<ul><li>COAST</li><li>Spatial Trends in Socioeconomics</li></ul>	
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Tool types	
· Data access	
· Visualization	
· Analytical	
<ul><li>Socioeconomic</li><li>Indices</li></ul>	
The spreadsheet	
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